

**From:** [Rene Fuentes](#)  
**To:** [Sheila Fleming](#)  
**Cc:** [Jennifer MacDonald](#); [Eric Winiacki](#); [Marie Jennings](#)  
**Subject:** Happy Cows Project update-- Well DC-14 Photos  
**Date:** 12/11/2012 08:56 PM  
**Attachments:** [P1010083.JPG](#)  
[P1010089.JPG](#)

---



P1010083.JPG P1010089.JPG

Photo 89 is a surface display of the sands and gravels which we found between surface and 150 feet below ground surface. Photo 83 is example of the work equipment and one lane closure while installing well DC-14.

René

---

Sheila,

Today we drilled well DC-14 near the Cow Palace, and it went to 150 plus feet before we got to a clear water detection. Well is not constructed yet, but we expect it to get done tomorrow morning. Water was recovering very well after the drilling and pressured air injection stopped and we expect that it will be sufficient so we do not have to drill deeper to have the water level be at the depth desired to install the screen. Drilling went smoothly but it is deeper than we originally planned, but not as deep as I had predicted after yesterday's well water level was detected in well DC-3. I had predicted depths of 170 feet below ground surface at this well based on one water level from well DC-3.

Weather has been cold. This morning we had freezing fog warnings but it turned out to be not as bad as yesterday when we had pretty frozen car windows. Temperatures about 25 to 40 (?) but it is hard to tell in the field. Traffic control has been working fine so far, and have not had any issues, even in this relatively heavily travelled road.

Next message will have a couple of photos of today's events.

René

\*\*\*\*\*

**René Fuentes P.E., P.H.G.**

Hydrogeologist  
Office of Environmental Assessment  
USEPA Region 10 (OEA-095)  
1200 Sixth Ave., Suite 900  
Seattle, WA 98101

phone: (206) 553-1599

\*\*\*\*\*

